

# ICTTEN807 Manage voice, data and internet protocol network solutions

Release: 1

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### **Modification History**

Release	Comments	
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 1.0.	

## **Application**

This unit describes the skills and knowledge required to integrate new solutions to an existing network and manage change implementation.

It applies to individuals with excellent technical skills working as network engineering or senior technical staff within project management roles with authority to direct activities of installation staff, manufacturers and vendors.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

#### **Unit Sector**

Telecommunications Networks Engineering

#### **Elements and Performance Criteria**

ELEMENT	PERFORMANCE CRITERIA	
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.	
1. Develop voice, data and IP network solutions	1.1 Produce requirements for voice, data and IP network solutions for delivery of new voice, data and IP networks to customers using forecasting demand data	
	1.2 Prepare plan for organisational change control process and integration of new solutions within a complete network infrastructure	
	1.3 Produce test management schedule for testing process of network product solution	
	1.4 Translate complex design and architecture requirements to	

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ELEMENT	PERFORMANCE CRITERIA		
	traceable software application characteristics according to design requirements		
	1.5 Develop network architecture solution specifications using industry process according to design requirements		
	1.6 Develop software and hardware resource profiling and select suitable vendor for negotiations		
	1.7 Translate complex requirements into software packaging		
	1.8 Produce software deployment mapping and version control to ensure complete integration and compatibility of network application solution to existing system		
	1.9 Complete configuration management and provide complex input network design requirements		
2. Critically analyse test results of voice, data and IP network solutions	2.1 Use design document and integration document software to replicate issues exhibited in test environment		
	2.2 Certify software solution compatibility and compliance to requirements using web-based test management tool (quality centre) to conduct performance evaluation tests		
	2.3 Critically analyse test reports to evaluate load balancing and network security issues in test environment		
	2.4 Resolve complex issues in interface to isolate defects		
3. Manage deployment of voice, data and IP	3.1 Plan and prepare evidence for customer acceptance and certification		
network solutions	3.2 Plan and manage transition to operation activities required for transition to operation of integrated IP network solution		
	3.3 Prepare installation failures procedure to make changes while maintaining service levels		
	3.4 Manage change implementation plan to maintain system stability		
4. Maintain currency of voice, data and IP network solutions	4.1 Manage ongoing monitoring activities to prolong new IP network solution life cycle for cost-effective business reasons		
	4.2 Produce tuning activities to make efficient use of resources		
	4.3 Analyse current demand for resources to derive forecasts and future requirements		
	4.4 Produce a capacity plan predicting infrastructure resource needs to achieve agreed service levels		

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#### **Foundation Skills**

This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance.

Skill	Performance Criteria	Description
Reading	1.2, 1.4, 1.5, 2.3	Organises, evaluates and interprets complex technical documentation, such as software and hardware manuals and design specifications
Writing	1.3, 1.5, 1.9, 3.1, 3.3, 4.4	Prepares clear and concise workplace documentation including reports and recommendations incorporating technical language to communicate complex information clearly and effectively
Numeracy	1.1, 2.3, 4.1, 4.3	Uses numerical information to interpret results, evaluate different types of technical data, take measurements and determine cost-effective outcomes
Get the work done	1.1-1.8, 2.1, 2.2, 2.4, 3.1, 3.2, 3.4, 4.1, 4.4	Uses combination of formal, logical planning processes and an increasingly intuitive understanding of context for complex, high-impact activities with strategic implications
		Demonstrates a sophisticated understanding of principles, concepts, language and practices associated with the digital world and uses this to devise solutions
		Implements actions according to a predetermined plan, making adjustments if necessary
		Takes responsibility for high-impact decisions in complex situations involving many variables and constraints
		Uses formal analytical and lateral thinking techniques for identifying issues, and developing and evaluating procedures for network solutions

# **Unit Mapping Information**

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTTEN807 Manage voice, data	ICTTEN7224A Manage voice, data and	Updated to meet Standards for	Equivalent unit

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Code and title current version	Code and title previous version	Comments	Equivalence status
and internet protocol network solutions	internet protocol network solutions	Training Packages.	
		Recoded and minor changes to PCs to meet AQF requirements.	

# Links

Companion Volume implementation guides are found in VETNet - <a href="https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2">https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2</a>

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